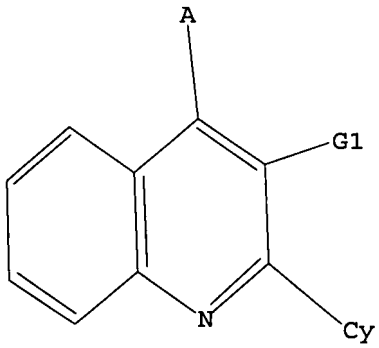
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 13:CLASS 15:CLASS

L8 STRUCTURE UPLOADED

=> d l8
L8 HAS NO ANSWERS
L8 STR




G1 C,H,S,N
G2 X,C,H,O

Structure attributes must be viewed using STN Express query preparation.

=> s l8 full
GENERIC GROUP NOT VALID HERE
Generic groups may not be used in these circumstances:

1. Any generic group node (e.g., Hy) in a ring.
2. An Ak node attached to another Ak node.

=> file reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 0.45 | 431.27 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -36.50 |

FILE 'REGISTRY' ENTERED AT 14:19:15 ON 03 MAY 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 2 MAY 2007 HIGHEST RN 934214-84-3
DICTIONARY FILE UPDATES: 2 MAY 2007 HIGHEST RN 934214-84-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> s l8 full
GENERIC GROUP NOT VALID HERE
Generic groups may not be used in these circumstances:

1. Any generic group node (e.g., Hy) in a ring.
2. An Ak node attached to another Ak node.

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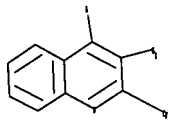

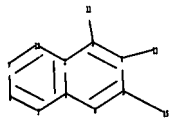

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11 15
ring nodes :
1 2 3 4 5 6 7 8 9 10
ring/chain nodes :
13
chain bonds :
3-11 4-13 5-15
ring bonds :
1-2 1-6 1-7 2-3 2-10 3-4 4-5 5-6 7-8 8-9 9-10
exact/norm bonds :
3-11 4-13 5-15
normalized bonds :
1-2 1-6 1-7 2-3 2-10 3-4 4-5 5-6 7-8 8-9 9-10

G1:C,H,S,N

G2:X,C,H,O

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 13:CLASS 15:Atom

L9 STRUCTURE UPLOADED

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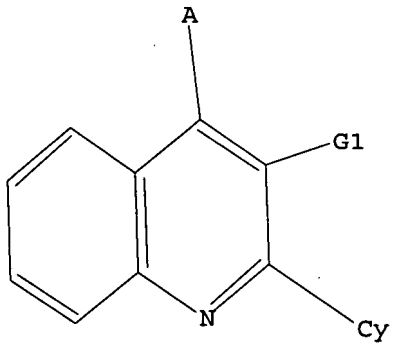
L9 HAS NO ANSWERS
L9 STR




G1 C,H,S,N

G2 X,C,H,O

Structure attributes must be viewed using STN Express query preparation.

=> s l9 full
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FULL SCREEN SEARCH COMPLETED - 747170 TO ITERATE

100.0% PROCESSED 747170 ITERATIONS 85771 ANSWERS
SEARCH TIME: 00.00.06

L10 85771 SEA SSS FUL L9

=> file ca

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 173.00 | 604.27 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -36.50 |

FILE 'CA' ENTERED AT 14:21:01 ON 03 MAY 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 26 Apr 2007 VOL 146 ISS 19
FILE LAST UPDATED: 26 Apr 2007 (20070426/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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L11        4344 L10

=> s l11 an dpy<2002
MISSING OPERATOR L11 AN
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> s l11 an py<2002
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L12        3529 L11 AND PY<2002

=> d his

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     FILE 'REGISTRY' ENTERED AT 14:15:29 ON 03 MAY 2007
L1              STRUCTURE UPLOADED
L2             50 S L1 SAM
L3         254513 S L1 FULL

     FILE 'CA' ENTERED AT 14:15:57 ON 03 MAY 2007
L4         70217 S L3
L5         56103 S L4 AND PY<2002
L6         29448 S PDE? OR PHOSPHODIESTERASE?
L7           109 S L6 AND L5

     FILE 'REGISTRY' ENTERED AT 14:18:44 ON 03 MAY 2007
L8              STRUCTURE UPLOADED

     FILE 'REGISTRY' ENTERED AT 14:19:15 ON 03 MAY 2007
L9              STRUCTURE UPLOADED
L10        85771 S L9 FULL

     FILE 'CA' ENTERED AT 14:21:01 ON 03 MAY 2007
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L11         4344 S L10
L12         3529 S L11 AND PY<2002

=> s l12 and l6
L13            6 L12 AND L6

=> d ibib abs fhitstr 1-6
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L13 ANSWER 1 OF 6 CA COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 137:279361 CA
TITLE: Preparation of nitrosated and nitrosylated α-adrenergic receptor antagonists for the treatment of sexual dysfunction
INVENTOR(S): Garvey, David S.; Saenz De Tejada, Inigo; Gaston, Ricky D.; Khanapure, Subhash P.; Shelekhin, Tatiana E.; Wang, Tiansheng
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 61 pp., Cont.-in-part of U.S. 6,294,517.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 9
PATENT INFORMATION:

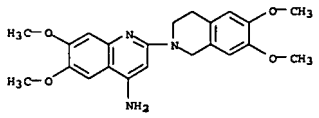
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 2002143007 | A1 | 20021003 | US 2002-146671 | 20020516 |
| US 5932538 | A | 19990803 | US 1996-595732 | 19960202 |
| <-- | | | | |
| US 5994294 | A | 19991130 | US 1996-714313 | 19960918 |
| <-- | | | | |
| US 6294517 | B1 | 20010925 | US 1998-145143 | 19980901 |
| <-- | | | | |
| US 2005187222 | A1 | 20050825 | US 2005-109761 | 20050420 |
| PRIORITY APPLN. INFO.: | | | US 1996-595732 | A2 19960202 |
| | | | US 1996-714313 | A2 19960918 |
| | | | US 1998-145143 | A2 19980901 |
| | | | WO 1997-US1294 | A2 19970128 |
| | | | US 1999-387724 | A1 19990901 |
| | | | US 2002-146671 | A1 20020516 |

OTHER SOURCE(S): MARPAT 137:279361
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I, II, III, etc. [R1 = H, alkoxy; R2 = NMe(CH2)aNHCORc, 6,7-dimethoxy-1,2,3,4-tetrahydroisoquinolin-2-yl, etc.; a= 2, 3; Rc = heterocyclic, alkyl, hydroxyalkyl, etc.; D = NO, NO2, etc.; R3 = CH2N(4-MeC6H4)(3-DOC6H4), CH2Ph, 2-methoxy-1,4-benzodioxin-2-yl, etc.; D1 = H or D with the proviso that D1 must be D if there is no other D in the compound; R4 = H, D, CORd; R5 = H, C(O)ORk, etc.; Rd = H, alkyl, cycloalkyl, etc.; Rk = H, alkyl] were prepared For example, nitrosylation of thiol IV

L13 ANSWER 1 OF 6 CA COPYRIGHT 2007 ACS on STN (Continued)
(X = H), e.g., prepd. from 4-[2-(dimethylamino)ethoxy]-2-methyl-5-(methylethyl)phenyl acetate in 3-steps, with NaNO2/HCl afforded IV.HCL (X = NO) in 82% yield. Compds. I, II, III, etc., donate, transfer or release nitric oxide or elevate levels of endogenous endothelium-derived relaxing factor, and are useful for treatment of sexual dysfunctions in males and females. In erectile response of anesthetized rabbits (2.5 kg), S-nitrosoglutathione, e.g., prepd. from glutathione and NaNO2/HCl, at 500 μg dosage was able to induce near maximal response relative to the std. dose of pap/phent/PGE1.
IT 90402-40-7D, Abanoquil, nitrated or nitrosylated derivs.
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(preparation of nitrosated and nitrosylated α-adrenergic receptor antagonists for the treatment of sexual dysfunction)
RN 90402-40-7 CA
CN 4-Quinolinamine, 2-(3,4-dihydro-6,7-dimethoxy-2(1H)-isoquinolinyl)-6,7-dimethoxy- (CA INDEX NAME)



L13 ANSWER 2 OF 6 CA COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 135:344472 CA
TITLE: Preparation of 6-(5-oxazolyl)-4(1H)-quinolinones as inhibitors of IMPDH enzyme
INVENTOR(S): Iwanowicz, Edwin J.; Watterson, Scott H.; Dhar, T. G. Murali; Pitts, William J.; Gu, Henry H.
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
SOURCE: PCT Int. Appl., 263 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2001081340 | A2 | 20011101 | WO 2001-US12900 | 20010419 |
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| WO 2001081340 | A3 | 20020523 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | |
| CA 2407370 | A1 | 20011101 | CA 2001-2407370 | 20010419 |
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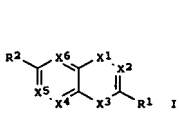
| EP 1276739 | A2 | 20030122 | EP 2001-928708 | 20010419 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| JP 2003531205 | T | 20031021 | JP 2001-578430 | 20010419 |
| US 2002040022 | A1 | 20020404 | US 2001-840503 | 20010423 |
| US 6919335 | B2 | 20050719 | | |
| PRIORITY APPLN. INFO.: | | | US 2000-199420P | P 20000424 |
| | | | WO 2001-US12900 | W 20010419 |

OTHER SOURCE(S): MARPAT 135:344472
GI



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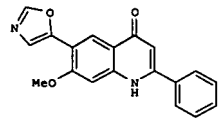
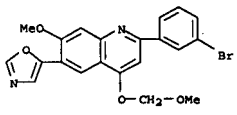


II

AB Title compds. I [wherein X1 = CO, SO, or SO2; X2 = CR3 or N; X3 = NH, O, or S; X4 = CR4 or N; X5 = CR5 or N; X6 = CR6 or N] were prepared were prepared

L13 ANSWER 2 OF 6 CA COPYRIGHT 2007 ACS on STN (Continued)
as inosine monophosphate dehydrogenase (IMPDH) enzyme inhibitors. For example, acetalization of 4-nitro-2-methoxytoluene with AcOH (51%), redn. to the aldehyde (91%), and cycloaddn. with (p-tolylsulfonyl)methyl isocyanate gave 5-(4-nitro-2-methoxyphenyl)oxazole (84%), which was reduced to the amine (95%). Alkylation with Et benzoylacetate and cyclization afforded the 6-(5-oxazolyl)-4(1H)-quinolinone II. Thus, I are useful as therapeutic agents for IMPDH-assocd. disorders, such as allograft rejection (no data).
IT 371249-73-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of oxazolylquinolinones as inhibitors of IMPDH enzyme for treatment of transplant rejection and other IMPDH-associated disorders)
RN 371249-73-9 CA
CN Quinoline, 2-(3-bromophenyl)-7-methoxy-4-(methoxymethoxy)-6-(5-oxazolyl)-(9CI) (CA INDEX NAME)

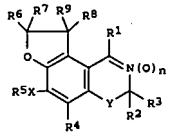


L13 ANSWER 3 OF 6 CA COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 135:272895 CA
TITLE: Preparation of Furanoisoquinoline derivatives as phosphodiesterase IV inhibitors
INVENTOR(S): Kawano, Yasuhiko; Matsumoto, Tatsumi; Uchikawa, Osamu; Fujii, Nobuhiro; Tarui, Naoki
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., USA
SOURCE: PCT Int. Appl., 620 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2001070746 | A1 | 20010927 | WO 2001-JP2277 | 20010322 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| CA 2404226 | A1 | 20010927 | CA 2001-2404226 | 20010322 |
| AU 200139550 | A | 20011003 | AU 2001-39550 | 20010322 |
| EP 1270577 | A1 | 20030102 | EP 2001-914191 | 20010322 |
| EP 1270577 | B1 | 20061206 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| AT 347557 | T | 20061215 | AT 2001-914191 | 20010322 |
| JP 2001335579 | A | 20011204 | JP 2001-84210 | 20010323 |
| US 2004092582 | A1 | 20040513 | US 2002-239439 | 20020920 |
| US 6924292 | B2 | 20050802 | | |
| PRIORITY APPLN. INFO.: | | | JP 2000-87121 A | 20000323 |
| | | | WO 2001-JP2277 W | 20010322 |

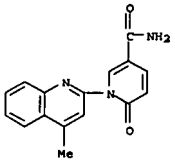
OTHER SOURCE(S): CASREACT 135:272895; MARPAT 135:272895
GI

L13 ANSWER 3 OF 6 CA COPYRIGHT 2007 ACS on STN (Continued)



I

AB Title compds. [I; R1 = C6H5, 4-HOC6H4, 1-naphthyl, 4-CH3OC6H4, 2-CH3OC6H4, 4-NH2C6H4, 4-C6H5C6H4, 4-BrC6H4, CH3, C6H5CO, 3-CH3SCH2CONHC6H4, 3-CH3OCOC6H4, 3-NH2C(CH3)2CONHC6H4, 3-furyl, 3-HOOCC6H4, 2-chloro-4-pyridyl, 3-CH3CH2OCOC6H4, 4-pyridylethylaminocarbonyl; R2 = CH3, CH2Br, CH3CH2, H, CH3COO; R3 = CH3, H; R2R3 = (CH2)5; R4 = H, CH2N(CH3)2, CH2SC6H5, CH2C(:CH2)CH3, CH2NHCOCH3, CH3OCH2, CH2OH, CH2F, CH2COOH, CH2CN; R5 = Cl, OCH3, CON(CH3)2, CH3O, H, CH3CH2O, NH2, CHONH, CH3SO2NH, NH2CONH, CH3CH2S, CH3; R6 = CH3, H, CH3CH; R7 = CH3, H, CH3CH2; R6R7 = (CH2)5; R8 = H, CH3; R9 = H, CH3; Y = CH2, CHOH, C:O, C(CH3)2; X = electron pair, O, S; n = 0, 1] and salts are prepared as phosphodiesterase IV inhibitors. Title compds. are useful as preventives and remedies for diseases caused by inflammation, for example, bronchial asthma, chronic obstructive pulmonary disease (COPD), rheumatoid arthritis, autoimmune disease and diabetes. Thus, the title compound I (R6 = CH3; R7 = CH3; R2 = CH3; R3 = CH3; X = O; R5 = CH3; n = 0; R9 = H; R8 = H; R1 = 3-CH3S:OCH2CONHC6H4) was prepared and biol. tested.
IT 363185-58-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of furano-isoquinoline derivs. as phosphodiesterase IV inhibitors)
RN 363185-58-4 CA
CN 3-Pyridinecarboxamide, 1,6-dihydro-1-(4-methyl-2-quinolinyl)-6-oxo- (9CI) (CA INDEX NAME)



L13 ANSWER 3 OF 6 CA COPYRIGHT 2007 ACS on STN (Continued)
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 4 OF 6 CA COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 134:178473 CA
TITLE: Preparation process of quinoline compounds as cGMP-specific phosphodiesterase inhibitors
INVENTOR(S): Umeda, Nobuhiro; Ito, Kunihito; Uchida, Seiichi; Shiinoki, Yasuyuki
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: PCT Int. Appl., 59 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

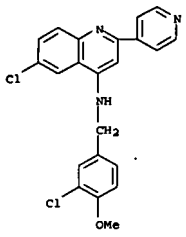
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2001012608 | A1 | 20010222 | WO 2000-JP5497 | 20000817 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| PRIORITY APPLN. INFO.: | | | JP 1999-231347 A | 19990818 |

OTHER SOURCE(S): MARPAT 134:178473
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Novel quinoline compds. [I; R1 represents nitro, cyano, halogeno, etc.; n is 0 or an integer from 1 to 4; R2 and R3 represent hydrogene, etc.; R4 represents hydrogen, C1-6 alkyl, optionally substituted Ph, an optionally substituted saturated or unsatd. heterocycle, etc.; and R5 represents an optionally substituted saturated or unsatd. heterocycle bonded to the quinoline ring via a carbon atom in the cycle] and pharmaceutically acceptable salts are prepared and are useful as cGMP-specific phosphodiesterase (PDE) inhibitors . Thus, the title compound II was prepared and tested.
IT 324757-81-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation process of quinoline compds. as cGMP-specific phosphodiesterase inhibitors)
RN 324757-81-5 CA
CN 4-Quinolinamine, 6-chloro-N-[(3-chloro-4-methoxyphenyl)methyl]-2-(4-pyridinyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 4 OF 6 CA COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 5 OF 6 CA COPYRIGHT 2007 ACS on STN (Continued)

| | | | | |
|---|---|---|---|---|
| US 2006142282 | A1 | 20060629 | US 2006-339919 | 20060125 |
| PRIORITY APPLN. INFO.: | | | US 1997-69741P | P 19971216 |
| | | | WO 1998-IB1723 | W 19981029 |
| | | | US 1999-367169 | B1 19991112 |
| | | | US 2002-255538 | A3 20020925 |

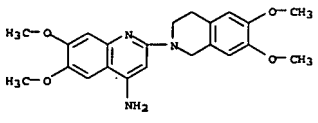
OTHER SOURCE(S): MARPAT 131:49481

AB The invention relates to the treatment of erectile dysfunction with a combination of (1) a compound selected from α-adrenergic receptor antagonists and (2) a compound selected from agents which elevate cGMP levels. Sildenafil or a pharmaceutically acceptable salt thereof is preferred as the cGMP PDE elevator. Also included are compns. and kits comprising such impotence treating compds. For example, an oral composition contains the combination of doxazosin mesylate and sildenafil citrate.

IT 90402-40-7, Abanoquil
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
(Uses)
(impotence treatment with α-adrenergic antagonists and cGMP level elevators)

RN 90402-40-7 CA

CN 4-Quinolinamine, 2-(3,4-dihydro-6,7-dimethoxy-2(1H)-isoquinolinyl)-6,7-dimethoxy- (CA INDEX NAME)



L13 ANSWER 5 OF 6 CA COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 131:49481 CA
TITLE: Combination effective for the treatment of impotence
INVENTOR(S): Wyllie, Michael Grant
PATENT ASSIGNEE(S): Pfizer Products Inc., USA
SOURCE: PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9930697 | A2 | 19990624 | WO 1998-IB1723 | 19981029 |
| WO 9930697 | A3 | 19990826 | | |
| W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW | | | | |
| RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| CA 2314993 | A1 | 19990624 | CA 1998-2314993 | 19981029 |
| AU 9894558 | A | 19990705 | AU 1998-94558 | 19981029 |
| AU 759825 | B2 | 20030501 | | |
| EP 1037616 | A2 | 20000927 | EP 1998-947741 | 19981029 |
| EP 1037616 | B1 | 20060301 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY | | | | |
| BR 9813699 | A | 20001010 | BR 1998-13699 | 19981029 |
| TR 200001733 | T2 | 20001121 | TR 2000-200001733 | 19981029 |
| HU 200100705 | A2 | 20010828 | HU 2001-705 | 19981029 |
| HU 200100705 | A3 | 20011228 | | |
| JP 2002508315 | T | 20020319 | JP 2000-538680 | 19981029 |
| NZ 504487 | A | 20021126 | NZ 1998-504487 | 19981029 |
| AT 318602 | T | 20060315 | AT 1998-947741 | 19981029 |
| ES 2258300 | T3 | 20060816 | ES 1998-947741 | 19981029 |
| AP 915 | A | 20001218 | AP 1998-1414 | 19981210 |
| W: BW, GM, KE, MW, UG, ZM, ZW | | | | |
| ZA 9811507 | A | 20000619 | ZA 1998-11507 | 19981215 |
| BG 104528 | A | 20010228 | BG 2000-104528 | 20000613 |
| NO 2000003065 | A | 20000815 | NO 2000-3065 | 20000615 |
| HR 2000000407 | A1 | 20001031 | HR 2000-407 | 20000616 |

L13 ANSWER 6 OF 6 CA COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 119:203427 CA
TITLE: Preparation of N-containing heterocyclic compounds as phosphodiesterase inhibitors.
INVENTOR(S): Takase, Yasutaka; Watanabe, Nobuhisa; Matsui, Makoto; Ikuta, Hironori; Kimura, Teiji; Saeki, Takao; Adachi, Hideyuki; Tokumura, Tadakazu; Mochida, Hisatoshi; et al.
PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan
SOURCE: PCT Int. Appl., 362 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9307124 | A1 | 19930415 | WO 1992-JP1258 | 19920930 |
| W: AU, CA, FI, HU, JP, KR, NO, RU, US | | | | |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE | | | | |
| ZA 9207465 | A | 19930413 | ZA 1992-7465 | 19920929 |
| CN 1071164 | A | 19930421 | CN 1992-110792 | 19920929 |
| AU 9226851 | A | 19930503 | AU 1992-26851 | 19920930 |
| AU 668363 | B2 | 19960502 | | |
| EP 607439 | A1 | 19940727 | EP 1992-920913 | 19920930 |
| EP 607439 | B1 | 20020109 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE | | | | |
| HU 70854 | A2 | 19951128 | HU 1994-910 | 19920930 |
| JP 2818487 | B2 | 19981030 | JP 1993-506780 | 19920930 |
| JP 2000264885 | A | 20000926 | JP 2000-70142 | 19920930 |
| JP 3477138 | B2 | 20031210 | | |
| JP 2000273089 | A | 20001003 | JP 2000-70138 | 19920930 |
| JP 3481900 | B2 | 20031222 | | |
| AT 211734 | T | 20020115 | AT 1992-920913 | 19920930 |
| US 5576322 | A | 19961119 | US 1994-196110 | 19940218 |
| FI 9401417 | A | 19940325 | FI 1994-1417 | 19940325 |
| NO 9401101 | A | 19940530 | NO 1994-1101 | 19940325 |
| US 5693652 | A | 19971202 | US 1995-408867 | 19950323 |
| JP 10095776 | A | 19980414 | JP 1997-195696 | 19970722 |
| JP 3081172 | B2 | 20000828 | | |
| US 5801180 | A | 19980901 | US 1997-904260 | 19970731 |
| JP 2000264877 | A | 20000926 | JP 2000-70130 | 20000314 |
| JP 3671131 | B2 | 20050713 | | |

L13 ANSWER 6 OF 6 CA COPYRIGHT 2007 ACS on STN (Continued)

| | | |
|---|---|---|
| PRIORITY APPLN. INFO.: | JP 1991-320853 | A 19910930 |
| | JP 1993-506780 | A3 19920930 |
| | JP 1997-195696 | A3 19920930 |
| | WO 1992-JP1258 | A 19920930 |
| | US 1994-196110 | A3 19940218 |
| | US 1995-408867 | A3 19950323 |

OTHER SOURCE(S): MARPAT 119:203427

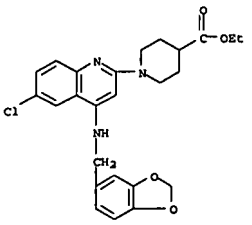
GI For diagram(s), see printed CA Issue.

AB The title compds. [I; R1-R4 = H, halo, (halo)alkyl, (un)substituted cycloalkyl, alkoxy, etc.; R5 = H, OH, hydrazino, alkyl, (un)substituted cycloalkyl, alkoxy, etc.; R6 = H, halo, OH, cyano, alkyl, alkoxy, alkenyl, etc.; A = benzene ring, pyridine ring, cyclohexane ring; B = pyridine ring, pyrimidine ring, imidazole ring], useful for treatment of ischemia, heart attack, hypertension, cardiac insufficiency, and asthma (no data), are prepared E.g., a mixture of 4-hydroxy-6-carbamoylquinazoline, SOCl2, and POCl3 was reflexed for 20 h to give 4-chloro-6-cyanoquinazoline. 4-(4-Methoxybenzyl)amino-6,7,8-trimethoxyquinazoline (also prepared) had an IC50 of 1.0 μM against phosphodiesterase in an in vitro study.

IT 150453-90-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate for phosphodiesterase inhibitors)

RN 150453-90-0 CA

CN 4-Piperidinecarboxylic acid, 1-[4-[(1,3-benzodioxol-5-ylmethyl)amino]-6-chloro-2-quinolinyl]-, ethyl ester (9CI) (CA INDEX NAME)



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L3      254513 S L1 FULL

     FILE 'CA' ENTERED AT 14:15:57 ON 03 MAY 2007
L4       70217 S L3
L5       56103 S L4 AND PY<2002
L6       29448 S PDE? OR PHOSPHODIESTERASE?
L7         109 S L6 AND L5

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L8             STRUCTURE UPLOADED

     FILE 'REGISTRY' ENTERED AT 14:19:15 ON 03 MAY 2007
L9             STRUCTURE UPLOADED
L10      85771 S L9 FULL

     FILE 'CA' ENTERED AT 14:21:01 ON 03 MAY 2007
L11       4344 S L10
L12       3529 S L11 AND PY<2002
L13          6 S L12 AND L6

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